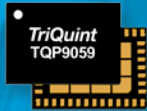
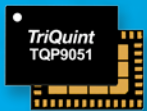


A photograph of three young girls of Asian descent looking at their smartphones. The girl in the center is smiling and holding a white smartphone. The girl on the right is holding a silver smartphone. The girl on the left is holding a black smartphone. They are all wearing backpacks. A large blue graphic overlay is on the left side of the image.

Looking to Simplify Your 3G & 4G Smartphone Design?

Choose TriQuint's Integrated
TRIUMF™ MMPA Solutions.



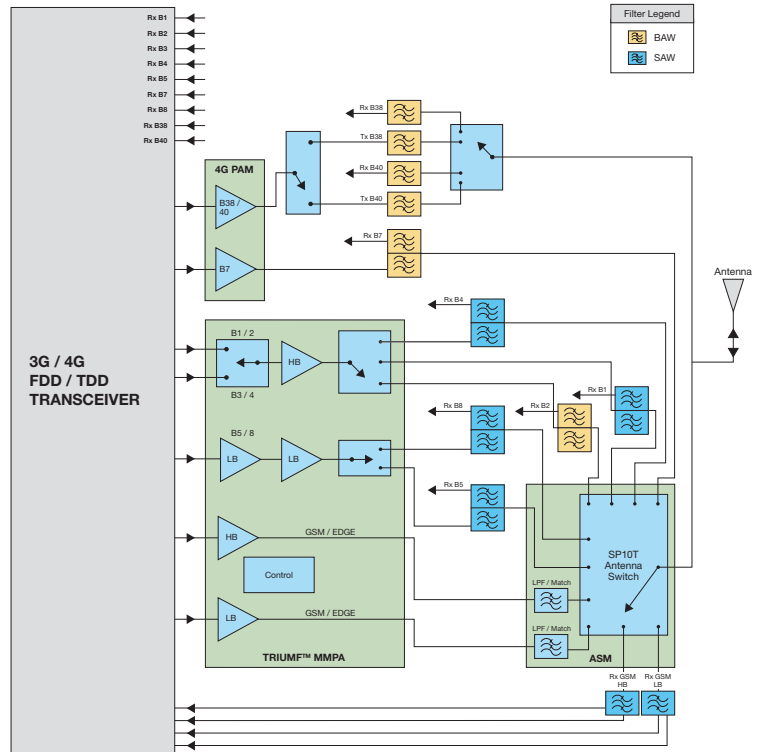
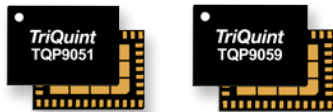
TriQuint 
Reach Further · Reach Faster™

Simplified Design, Faster Time to Market

With growing demand for global 3G / 4G smartphones, RF front-ends are becoming far more complex. TriQuint's TRIUMF™ multi-mode, multi-band power amplifier (MMPA) modules provide an efficient, compact solution that simplifies RF design and speeds time to market, while delivering more user browsing time. Replace up to ten discrete power amplifiers with a single integrated MMPA in a small 5x7mm package, freeing up more PCB space for richer feature sets. Simplified routing improves system performance while enabling faster design cycles, and the reduced BOM count enhances manufacturing efficiency.

As the number of frequency bands around the world grows, one of the biggest challenges for mobile device manufacturers is how to accelerate the delivery of innovative products while managing the proliferation of regional variants. By combining the most popular bands into a single module, TriQuint's TRIUMF™ MMPAs provide our customers with a common platform to address the booming 3G / 4G market in North America, Europe and Asia.

The highly integrated TRIUMF™ MMPA is one more proven way TriQuint engineers are delivering innovative solutions for the most complex mobile design challenges. Let us help you simplify your design and enhance system performance while speeding time to market.



TRIUMF™ MMPA Family – GSM / GPRS / EDGE / WCDMA / HSPA+ / LTE

Part #	Description	Size (mm)	Bands	Features
TQP9051	Multi-mode Multi-band PA Module w/ Quad-Band GSM / EDGE and Hexa-Band WCDMA / HSPA+ / LTE	5.0x7.0x1.0	GSM850 / 900, DCS / PCS & WCDMA & LTE B1, B2, B3, B4, B5 / 26 & B8	MIPI & ET / APT
TQP9059	Multi-mode Multi-band PA Module w/ Quad-Band GSM / EDGE and Hepta-Band WCDMA / HSPA+ / LTE	5.0x7.0x1.0	GSM850 / 900, DCS / PCS & WCDMA & LTE B1, B2, B3 / 4, B5, B8, B17, B20 & B26	MIPI & ET / APT
TQP9097	Multi-mode Multi-band Carrier-Aggregation PA Module w/ Quad-Band GSM / EDGE and 10 Band WCDMA / HSPA+ / LTE	5.0x7.0x1.0	GSM850 / 900, DCS / PCS, WCDMA & LTE B1, B2, B3, B4, B5, B8, B13, B17, B20, B26 & TD-SCDMA B34 / 39	MIPI & ET / APT
TQP9059S	Multi-mode Multi-band PA Module w/ Quad-Band GSM / EDGE and Hepta-Band WCDMA / HSPA+ / LTE	5.0x7.0x1.0	GSM850 / 900, DCS / PCS & WCDMA & LTE B1, B2, B3 / 4, B5, B8, B20 & B26	MIPI & ET / APT
TQM7M9050M	Multi-mode Multi-band PA Module w/ Quad-Band GMSK / EDGE and Penta-Band WCDMA / HSPA+ / LTE	5.0x7.0x1.0	GSM850 / 900, DCS / PCS & WCDMA & LTE B1, B2, B3 / 4, B5 & B8	MIPI & ET / APT
TQP9058H	Multi-mode Multi-band PA Module Quad-Band GSM / EDGE and Penta-Band WCDMA / HSPA+ / LTE	5.0x7.0x1.0	GSM850 / 900, DCS / PCS & WCDMA & LTE B1, B2, B3 / 4, B5 & B8	GPIO & APT
TQM7M9053	Multi-mode Multi-band PA Module w/ Quad-Band GMSK / EDGE and Dual-Band WCDMA	5.0x7.5x1.0	GSM850 / 900, DCS / PCS & WCDMA B1 & B5 / 8	GPIO & APT